

# FOS CDR RID Report

Date Last Modified 12/14/95

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Document Command Subsystem

|                |       |
|----------------|-------|
| RID ID         | CDR 1 |
| Review         | FOS   |
| Originator Ref |       |
| Priority       | 2     |

Section

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Figure Table

Category Name Real-time Command Design

Actionee ECS

Sub Category

Subject Timing between Commands

## Description of Problem or Suggestion:

There is a delay between uplinked commands that is not maintained if off-nominal events causes a retransmission.

## Originator's Recommendation

The command delay specified in the ground uplink system shall be maintained to spacecraft receipt under nominal and off-nominal conditions/events.

GSFC Response by:

GSFC Response Date

HAIS Response by: Debbie Dunn

HAIS Schedule

HAIS R. E. Scott Carter

HAIS Response Date 11/10/95

The CCSDS retransmission mechanism does not provide the means to maintain spacing between real-time commands. If spacing between a set of real-time commands is critical, the following method would ensure that spacing:

1) At the beginning of the procedure, wait for all previously transmitted real-time commands to be "receipt verified". This forces the CCSDS "Sent\_Queue" to be empty.

2) Set the "Transmit\_Limit" to 1. This ensures that no automatic retransmission will occur.

3) Upon a failure condition, the operator would manually retransmit the commands using the command control window.

If spacing between commands is critical, it is recommended that the FOT execute these commands via stored commands.

Status **Closed**

Date Closed **12/14/95**

Sponsor **Johns**

\*\*\*\*\* Attachment if any \*\*\*\*\*